

1 What is claimed is:

2 1. A method for web document processing using a multi-browsing  
3 function for incorporating and browsing a plurality of web documents at a terminal  
4 connected to a server through a network, the method comprising the steps of:  
5 obtaining web documents including at least a primary document;  
6 obtaining one or more secondary web documents from the primary document;  
7 storing data of the secondary web documents in corresponding predetermined  
8 storing portions;  
9 displaying document selectors associated with the secondary web documents  
10 on a screen of the terminal; and  
11 upon selecting one of the document selectors, displaying a secondary web  
12 document corresponding to a selected document selector on the screen of the  
13 terminal.

14  
15 2. The method of claim 1, wherein the primary document is indicated by a  
16 Uniform Resource Locator (URL).

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18 3. The method of claim 1, wherein the primary document creates, deletes,  
19 and switches the secondary web documents.

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21 4. The method of claim 1, further comprising the step of deleting data of a  
22 previous secondary web document stored in a storing portion, recording the content  
23 of a new secondary web document on the storing portion, and displaying the new  
24 secondary web document on the screen when another new secondary web  
25 document is obtained through a link on the secondary web document displayed on  
26 the screen of the terminal.

27  
28 5. The method of claim 1, wherein the secondary web documents are  
29 generated by specifying URLs of web sites containing the secondary web  
30 documents.

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1           6.     The method of claim 1, wherein the secondary web documents are  
2 generated by using a plurality of results processed based on data input or selected  
3 by a user.

4  
5           7.     The method of claim 6, wherein generating the secondary web  
6 documents that indicate the result of a search made by a plurality of search engines  
7 comprises the steps of:

8           receiving a search term from a user;

9           providing the search term to a plurality of search engines and making a  
10 search request;

11          receiving the results of the search from the plurality of search engines and  
12 designating the results of the search as the secondary web documents.

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14          8.     The method of claim 1 or 7, wherein the web page of the server  
15 displayed on the screen of the terminal includes at least one of a separate  
16 location/URL input area and a search term input area and a virtual browser window  
17 where the secondary web documents are superimposed in layers.

18  
19          9.     The method of claim 8, wherein the plurality of secondary web  
20 documents are stored in association with objects such as frame, inline frame (iframe),  
21 layer, division, and span, and if a select event for the objects occurs, a selected  
22 object is displayed on the virtual browser window.

23  
24          10.    The method of claim 1, wherein the secondary web documents  
25 includes two types of documents: documents predesignated and provided to the user  
26 and documents designated by the user during browsing.

27  
28          11.    The method of claim 10, wherein the secondary web documents  
29 predesignated and provided to the user are designated by the server and/or the  
30 user.

1           12.    The method of claim 10, wherein the secondary web documents  
2 designated by the user during browsing are designated by entering Internet Protocol  
3 (IP) addresses or domain names or clicking on a hypertext linked to a web document,  
4 or they are designated according to an input result submitted through an input form  
5 contained in a predetermined web document.  
6

7           13.    The method of claim 1, wherein data of the plurality of secondary web  
8 documents are automatically stored in the storing portions during web browsing  
9 without extra manipulation by the user.  
10

11           14.    The method of claim 1, wherein the web document processing method  
12 is implemented with a script and/or general purpose program to be executed on the  
13 terminal.  
14

15           15.    An apparatus for web document processing including a multi-browsing  
16 function for incorporating and browsing a plurality of web documents at a terminal  
17 connected to a server through a network, the apparatus comprising:  
18

19           a module for obtaining web documents containing at least a primary  
20 document;

21           a module for obtaining one or more secondary web documents specified in  
22 the primary document;

23           a module for storing data of the secondary web documents in corresponding  
24 predetermined storing portions;

25           a module for displaying document selectors in association with the secondary  
26 web documents on a screen of the terminal; and

27           a module for displaying a secondary web document stored in the  
28 corresponding storing portion corresponding to one of the document selectors  
29 selected on the screen of the terminal.

30           16.    The apparatus of claim 15, wherein the primary document is indicated  
31 by a Uniform Resource Locator (URL).

1           17.    The apparatus of claim 15, wherein the primary document creates,  
2 deletes, and switches the secondary web documents.  
3

4           18.    The apparatus of claim 15, wherein when another new secondary web  
5 document is obtained through a link on the secondary web document displayed on  
6 the screen of the terminal, data of a previous secondary web document stored in the  
7 storing portion is deleted, the content of the new secondary web document is  
8 recorded on the storing portion, and the new secondary web document is displayed  
9 on the screen.

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11  
12           19.    The apparatus of claim 15, wherein the secondary web documents are  
13 generated by specifying URLs of web sites containing the secondary web  
14 documents.

15           20.    The apparatus of claim 15, wherein the secondary web documents are  
16 generated by using a plurality of results processed based on data input or selected  
17 by a user.  
18

19           21.    The apparatus of claim 20, wherein the web document processing  
20 apparatus comprises a multiple search module that receives a search term from a  
21 user, provides the search term to a plurality of search engines and makes a search  
22 request, receives the results of the search from the plurality of search engines, and  
23 designates the results of the search as the secondary web documents.  
24

25           22.    The apparatus of claim 15 or 21, wherein the web page of the server  
26 displayed on the screen of the terminal includes at least one of a separate  
27 location/URL input area and a search term input area and a virtual browser window  
28 where the secondary web documents are superimposed in layers.  
29

30           23.    The apparatus of claim 22, wherein the plurality of secondary web  
31 documents are stored in association with objects such as frame, inline frame (iframe),

1 layer, division, and span, and if a select event for the objects occurs, a selected  
2 object is displayed in the virtual browser window.

3  
4 24. The apparatus of claim 15, wherein the secondary web documents  
5 includes two types of documents: documents predesignated and provided to the user  
6 and documents designated by the user during browsing.

7  
8 25. The apparatus of claim 24, wherein the secondary web documents  
9 predesignated and provided to the user are designated by the server and/or the  
10 user.

11  
12 26. The apparatus of claim 24, wherein the secondary web documents  
13 designated by the user during browsing are designated by entering Internet Protocol  
14 (IP) addresses or domain names or clicking on a hypertext linked to a web document,  
15 or they are designated according to an input result submitted through an input form  
16 contained in a predetermined web document.

17  
18 27. The apparatus of claim 15, wherein the web document processing  
19 apparatus is implemented as a script and/or general purpose program to be  
20 executed on the terminal.

21  
22 28. The apparatus of claim 15, wherein the terminal is a PC-based  
23 client-server system, a web TV, a Personal Digital Assistant (PDA), or a web phone.

24  
25 29. The apparatus of claim 15, wherein data of the plurality of secondary  
26 web documents are automatically stored in the storing portions during web browsing  
27 without extra manipulation by the user.

28  
29 30. A computer readable recording medium on which a web document  
30 processing method for incorporating and browsing a plurality of web documents at a  
31 terminal connected to a server through a network is recorded, wherein the web  
32 browsing processing method comprises the steps of:

1 obtaining web documents including at least a primary document;  
2 obtaining one or more secondary web documents specified in the primary  
3 document;  
4 storing data of the secondary web documents in corresponding predetermined  
5 storing portions;  
6 displaying document selectors associated with the secondary web documents  
7 on a screen of the terminal; and  
8 upon selecting one of the document selectors, displaying a secondary web  
9 document corresponding to the selected document selector on the screen of the  
10 terminal.

11  
12 31. A method for web document processing for performing web browsing  
13 at a terminal for Internet communications, the method comprising the steps of:  
14 opening and loading a plurality of web documents together;  
15 loading the plurality of web documents into different objects such as layers or  
16 frames;  
17 upon selecting one of the plurality of web documents, displaying a selected  
18 web document on a multi-browser window while making a current layer invisible from  
19 the window;  
20 upon entering a URL into a location window of the multi-browser window,  
21 changing a document of a current object displayed on the multi-browser window to a  
22 document of a location identified by the input URL; and  
23 affecting the document of the current object displayed on the multi-browser  
24 window when clicking on forward, back, and reload buttons.

25  
26 32. A web browser executed on a terminal connected through a network  
27 for incorporating and browsing a plurality of web documents, wherein the web  
28 browser obtains one or more web documents, stores data of the obtained web  
29 documents in corresponding predetermined storing portions, displays document  
30 selectors associated with the web documents, and upon selecting one of the  
31 document selectors, displays a web document stored in the storing portion  
32 corresponding to the document selector on a screen of the terminal.

1           33.    A web page for providing a multi-browsing function to a user accessing  
2 the web page through a terminal capable of Internet communications, wherein the  
3 web page comprises a document selecting portion for displaying a plurality of web  
4 documents on a web browser at once so that a user can select one of the plurality of  
5 web documents, and wherein the web page comprises a multi-browser window for  
6 displaying an object of the selected web document while clearing a previous web  
7 document.

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